ELSEVIER

Biosystems 42 (1997) 215–216

BioSystems

Volume contents

Volume 42 (1997)

A general method for tree-comparison based on subtree similarity and its use in a taxonomic database
Y. Zhong, C.A. Meacham, S. Pramanik (USA) 1–8
Dynamical behavior of a neural network with periodical external inputs
A.V. Olypher (Russia) 9–17
Simulation of the clonal growth of *Bostrychia radicans* (Ceramiales-Rhodophyta) using Lindenmayer systems
L. Collado-Vides, G. Gómez-Alcaraz, G. Rivas-Lechuga, V. Gómez-Gutierrez (Mexico) 19–27
The evolution of parallel cellular machines: Toward evolware
M. Sipper (Switzerland) 29–43
A logic-based dynamical theory for a genesis of biological threshold
I. Tsuda, K. Tadaki (Japan) 45–64
Evanescent (tunneling) photon and cellular 'vision'
M. Jibu, K. Yasue, S. Hagan (Japan, Canada) 65–73

Editorial 75–76
Introduction
S. Santoli (Italy) 77–84
A criterion of relative degree of chaos or order for open systems
Y.L. Klimontovich (Russia). 85–102
Origin of biochemical organization
A.E. Lyubarev, B.I. Kurganov (Russia). 103–110
The emergence of the non-cellular phase of life on the fine-grained clayish particles of the early Earth's regolith
M.D. Nussinov, V.A. Otroshchenko, S. Santoli (Russia, Italy) 111–118
Biodynamics for the emergence of energy consumers
K. Matsuno (Japan) 119–127
Molecular Semantics and the Origin of Life
K. Matsuno (Japan) 129–139
Determination of the relative degree of order in a chain of diffusion-linked self-oscillators simulating peristalsis of thin tubules according to the *S*-theorem criterion
Y.L. Klimontovich, V.A. Vasil'ev (Russia) 141–144

Self-Organization in Semiconductor Physics
J. Parisi (Germany) 145–152
The enigma of microtubules and their self-organizing behavior in the cytoskeleton
J.A. Tuszynski, B. Trpišová, D. Sept, M.V. Satarić (Canada, Yugoslavia) 153–175
Origin of life and the underlying physics of the universe
M. Conrad (USA) 177–190
The topology of perceptive functions as a corollary of the theorem of existence in closed spaces
M. Bounias, A. Bonaly (France, USA) 191–205
Some remarks on the experimental realization of a mind machine
J. Parisi, O.E. Rössler (Germany) 207–208

Author index 209
Subject index 211–213
Volume contents 215–216